

LISTING OF THE CLAIMS

1. (Previously Presented): A liquid crystal display device, comprising:
 - first and second substrates facing and spaced apart from each other;
 - a retardation layer on an outer surface of the first substrate;
 - a linear polarizing layer on the retardation layer;
 - a cholesteric liquid crystal color filter (CCF) layer on an inner surface of the second substrate;
 - a liquid crystal layer between the first substrate and the CCF layer;
 - a first cholesteric liquid crystal (CLC) polarizing layer on an outer surface of the second substrate and having a first helical pitch of a first circular polarization direction;
 - a second cholesteric liquid crystal (CLC) polarizing layer on the first CLC polarizing layer, the second CLC polarizing layer having a second helical pitch of a second circular polarization direction opposite to the first circular polarization direction, wherein the CCF layer has the same circular polarization direction as the first circular polarization direction; and
 - a backlight unit outside the second CLC polarizing layer.
2. (Original): The device according to claim 1, wherein the first helical pitch is discrete and the second helical pitch is continuous.
3. (Original): The device according to claim 2, wherein the first helical pitch corresponds to bands of wavelengths adjacent to red, green and blue colors, and the second helical pitch corresponds to a broadband of wavelength.
4. (Original): The device according to claim 3, the CCF layer has a third helical pitch of a third circular polarization direction the same as the first circular polarization direction.
5. (Original): The device according to claim 3, the third helical pitch corresponds to bands of wavelengths of red, green and blue colors.
6. (Original): The device according to claim 3, the first to third circular polarization direction is one of right-handedness and left-handedness.

7. (Original): The device according to claim 1, wherein the first helical pitch is continuous and the second helical pitch is discrete.

8. (Original): The device according to claim 1, further comprising a diffusing layer between the first substrate and the retardation layer.

9. (Original): The device according to claim 8, further comprising a compensation layer of viewing angle between the retardation layer and the linear polarizing layer.

10. (Original): The device according to claim 1, wherein the backlight unit emits light of a spectrum having peaks at wavelength bands corresponding to red, green and blue colors.

11. (Original): The device according to claim 1, wherein the retardation layer is a quarter wave plate.

12. (Withdrawn): A liquid crystal display device, comprising:

first and second substrates facing and spaced apart from each other;

a diffusing layer on an outer surface of the first substrate;

a first linear polarizing layer on the diffusing layer;

a cholesteric liquid crystal color filter (CCF) layer on an inner surface of the second substrate;

a retardation layer on the CCF layer; a second linear polarizing layer on the retardation layer; a liquid crystal layer between the first substrate and the second linear polarizing layer;

a first cholesteric liquid crystal (CLC) polarizing layer on an outer surface of the second substrate and having a first helical pitch of a first circular polarization direction;

a second cholesteric liquid crystal (CLC) polarizing layer on the first CLC polarizing layer, the second CLC polarizing layer having a second helical pitch of a second circular polarization direction opposite to the first circular polarization direction; and

a backlight unit outside the second CLC polarizing layer.

13. (Withdrawn): The device according to claim 12, wherein the first helical pitch is discrete and the second helical pitch is continuous.

14. (Withdrawn): The device according to claim 13, wherein the first helical pitch corresponds to bands of wavelengths adjacent to red, green and blue colors, and the second helical pitch corresponds to a broadband of wavelength.

15. (Withdrawn): The device according to claim 14, the CCF layer has a third helical pitch of a third circular polarization direction the same as the first circular polarization direction.

16. (Withdrawn): The device according to claim 14, the third helical pitch corresponds to bands of wavelengths of red, green and blue colors.

17. (Withdrawn): The device according to claim 14, the first to third circular polarization direction is one of right-handedness and left-handedness.

18. (Withdrawn): The device according to claim 12, wherein the first helical pitch is continuous and the second helical pitch is discrete.

19. (Withdrawn): The device according to claim 12, further comprising a compensation layer of viewing angle between the diffusing layer and the first linear polarizing layer.

20. (Withdrawn): The device according to claim 12, wherein the backlight unit emits light of a spectrum having peaks at wavelength bands corresponding to red, green and blue colors.